NOTES:
1. DETAILS SHOWN ARE FOR CAST-IN-PLACE GRADE RINGS. BUILD GRADE RINGS TO GRADE AS SPECIFIED ON PLAN SHEETS OR AS DIRECTED BY ENGINEER.
2. IF GRADE RINGS ARE PRECAST, DESIGN SPECIFICATIONS SHALL CONFORM TO AASHO M-199, LATEST REVISIONS.
3. COLLAR DETAILS SHOWN ARE FOR CAST-IN-PLACE CONSTRUCTION AROUND MANHOLE ADJUSTMENTS AND REPAIRS. COLLAR DETAIL IS NOT INTENDED FOR NEW CONSTRUCTION.
4. PROVIDE MINIMUM COVER OF 12".
5. #5 BARS (TYP.) MIN. 4" @ 45 DEGREES (TYP. ALL AROUND)
6. #5 BAR - 28" LONG #5 WITH 13" OVERLAP (TYP.) 
7. MINIMUM DEPTH 41 2"
8. PROPOSED MANHOLE ADJUSTMENT RING TO REMAIN IN PLACE.
9. CAST-IN-PLACE CONCRETE COLLAR - GRADE TO MATCH SURROUNDING PAVEMENT
10. EXISTING GRADE RING TO REMAIN IN PLACE.
11. EXISTING MANHOLE FRAME TO REMAIN IN PLACE.
12. TOP UNIT - WHERE BITUMINOUS PAVEMENT IS NOT AVAILABLE.
13. WHERE COLLAR EXTENDS BEYOND GRADE RING, PREPARE ADEQUATE SUB-BASE.
14. USE TOP UNIT WHERE BITUMINOUS PAVEMENT IS NOT AVAILABLE.
15. CAST-IN-PLACE CONCRETE COLLAR AROUND EXISTING MANHOLE FRAME
16. FRAME OUTER DIAMETER OF GRADE RING
17. HAND/EYE TOOL
18. PROPOSED MANHOLE ADJUSTMENT RING TO REMAIN IN PLACE
19. TOP UNIT - WHERE BITUMINOUS PAVEMENT IS NOT AVAILABLE.
20. PROVIDE MINIMUM COVER OF 12".
21. CAST-IN-PLACE CONCRETE COLLAR AROUND EXISTING MANHOLE FRAME
22. EXISTING GRADE RING TO REMAIN IN PLACE.
23. EXISTING MANHOLE FRAME TO REMAIN IN PLACE.
24. TOP UNIT - WHERE BITUMINOUS PAVEMENT IS NOT AVAILABLE.
25. PROVIDE MINIMUM COVER OF 12".
26. CAST-IN-PLACE CONCRETE COLLAR AROUND EXISTING MANHOLE FRAME
27. EXISTING GRADE RING TO REMAIN IN PLACE.
28. EXISTING MANHOLE FRAME TO REMAIN IN PLACE.
29. TOP UNIT - WHERE BITUMINOUS PAVEMENT IS NOT AVAILABLE.
30. PROVIDE MINIMUM COVER OF 12".